

Claims

- [c1] 1. An electric machine comprising:
a kinetically sprayed permanent magnet material and a binder material forming
a composite admixture having microstructures of permanent magnet material
embedded in the binder material, said admixture having a permanent magnetic
moment.
- [c2] 2. The electric machine of claim 1, wherein said admixture of magnetic material
and binder material has a particle size less than 325 mesh.
- [c3] 3. The electric machine of claim 1, wherein said magnetic material is selected
from the group consisting of iron, nickel, cobalt, samarium-cobalt, aluminum-
nickel-cobalt, neodymium-iron-boron and samarium-iron-nickel or mixtures
thereof.
- [c4] 4. The electric machine of claim 1, wherein said binder material is selected from
the group consisting of iron, nickel or cobalt or mixtures thereof.
- [c5] 5. The electric machine of claim 2, wherein said component is aluminum.
- [c6] 6. The electric machine of claim 1, wherein said carrier is iron.
- [c7] 7. The electric machine of claim 1, wherein said electric machine is a motor.
- [c8] 8. The electric machine of claim 1, wherein said electric machine is a generator.
- [c9] 9. The electric machine of claim 1, further comprising a kinetically sprayed
conductor coil attached to a second component.
- [c10] 10. The electric machine of claim 1, wherein said second component is aligned
with said first component whereby a magnetic moment penetrates the coil.